

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S3	48885	(noise WITH (cancel\$ OR suppress\$3 OR subtract\$3 OR reduc\$4)) SAME second	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 13:53
S4	22309	S3 AND @ad<"20010212"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 14:01
S5	61	S4 AND Wiener filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 13:55
S6	2	Smits-T\$.xp,xa. AND Wiener filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 14:02
S7	49	Smits-T\$.xp,xa. AND 704/226-228. ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 14:12
S8	3671	residual near2 noise	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 14:20
S9	1103	S8 WITH (suppress\$3 OR cancel\$ OR subtract\$3 OR reduc\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 14:21

EAST Search History

S10	636	S9 AND @ad<"20010212"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 14:21
S11	2460	residual near noise	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 14:21
S12	773	S11 WITH (suppress\$3 OR cancel\$ OR subtract\$3 OR reduc\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 14:21
S13	479	S12 AND @ad<"20010212"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 14:22
S14	24	S13 AND (noise near reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 16:27
S15	1	S13 AND ((noise near reference) with subtract\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 15:07
S16	103	mainly noise AND @ad<"20010212"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 15:08

EAST Search History

S17	1491	(vehicle WITH noise) SAME microphone	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 16:31
S18	714	S17 AND @ad<"20010212"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 16:36
S19	0	S18 AND Smits-T\$.xp,xa.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 16:37
S20	48	S18 AND "704"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 16:37
S21	288	S18 AND (subtract\$3 OR cancel\$)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 16:38
S22	333	S17 SAME (subtract\$3 OR cancel\$)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 16:39
S23	149	S22 AND @ad<"20010212"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 16:39

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Set	Items	Description
S1	315697	S (VOICE?? OR VOCAL???? OR SOUND?? OR ACOUSTIC? OR AUDIBL? OR AUDIO OR SPEECH OR TALK??? OR SPEAKER OR AURAL OR UTTERANCE?? OR SONG OR MUSIC OR LANGUAGE??) (3N) (SAMPL??? OR PACKET? OR DATA OR FRAME?? OR SIGNAL? OR SPECTRUM OR SPECTRA OR COMPONENT?? OR ELEMENT??)
S2	17393	S (NOISE?? OR (WHITE OR PINK) ()NOISE?? OR BABBL??? OR CROSS () TALK???) (3N) S1

S3 628 S (CORRELAT??? OR RELAT? OR CORRESPOND? OR COMPARE?? OR
 COMPARING OR COMPARISON?? OR MATCH??? OR RELATIONSHIP OR ASSOCIAT???) (3N) S2
 S4 104 S (SUPPRESS??? OR DENOIS? OR FILTER??? OR REMOV??? OR
 SEPARATE??? OR RECOVER? OR EXTRACT??? OR SUBTRACT??? OR MINUS OR DIFFERENCE OR
 CLEAN??? OR REDUC? OR CANCEL???? OR TRAIN??? OR CORRECT??? OR MUTE?? OR MUTING
 OR CANCEL? OR UNDESIRED??) (3N) S3
 S5 0 S (S4(3N)UNCORRELAT??? OR S4 NOT (CORRELAT??? OR RELAT? OR
 CORRESPOND? OR COMPARE?? OR COMPARING OR COMPARISON?? OR MATCH??? OR
 RELATIONSHIP OR ASSOCIAT???))
 S6 49750 S AU=(YANG, F? OR YANG F? OR HUANG, Y? OR HUANG Y?)
 S7 8262 S ADAPTIVE(3N) CANCEL?
 S8 78 RD S4 (unique items)
 S9 51 S S8 NOT PY>2001
 S10 2 S S9 AND UNCORRELAT?
 S11 1 S S9 AND NLMS
 S12 1 S S11 NOT S10
 S13 4 S S9 AND S7
 S14 4 S S13 NOT (S10 OR S12)
 S15 10 S S9 AND SUPPRESS?
 S16 8 S S15 NOT (S10 OR S12 OR S14)
 S17 0 S S9 AND S6
 S18 2 S S3 AND S6
 S19 2 S S18 NOT (S10 OR S12 OR S14 OR S16)
 S20 0 S S19 NOT PY>2001
 S21 1 S S3(3N) S7
 S22 0 S S21 NOT (S10 OR S12 OR S14 OR S16)

10/3,K/1 (Item 1 from file: 8) [Links](#)

Ei Compendex(R)

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07484822 E.I. No: EIP96083298880

Title: Optimization of speech enhancement techniques coping with uncorrelated or correlated noises

Author: Faucon, G.; Jeannes, R. Le Bouquin

Corporate Source: Universite de Rennes, Rennes, Fr

Conference Title: Proceedings of the 1996 International Conference on Communication Technology Proceedings, ICCT'96. Part 1 (of 2)

Conference Location: Beijing, China **Conference Date:** 19960505-19960507

E.I. Conference No.: 45212

Source: International Conference on Communication Technology Proceedings, ICCT v 1 1996. IEEE, Piscataway, NJ, USA. p 416-419

Publication Year: 1996

CODEN: 002424

Language: English

Title: Optimization of speech enhancement techniques coping with uncorrelated or correlated noises

Abstract: ...low while the coherence between the speech signals is close to one (in magnitude). Two methods have been already proposed considering that the noises are uncorrelated. In this paper, a modification is presented to take the correlated noises into account. The aim is to study theoretically the methods to get an...

Descriptors: *Speech processing; Optimization; Signal interference; Acoustic noise; Mobile radio systems; Correlation theory; Signal filtering and prediction; Error compensation; Interference suppression; Frequency domain analysis

Identifiers: Speech enhancement; Correlated noise; Uncorrelated noise; Wiener filtering; Coherence function; Noise cancellation technique

10/3,K/2 (Item 2 from file: 8) [Links](#)

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06869263 E.I. No: EIP94051299070

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Set	Items	Description
S1	266659	S (VOICE?? OR VOCAL???? OR SOUND?? OR ACOUSTIC? OR AUDIBL? OR AUDIO OR SPEECH OR TALK??? OR SPEAKER OR AURAL OR UTTERANCE?? OR SONG OR MUSIC OR LANGUAGE??) (3N) (SAMPL??? OR PACKET? OR DATA OR FRAME?? OR SIGNAL? OR SPECTRUM OR SPECTRA OR COMPONENT?? OR ELEMENT??)
S2	8945	S (NOISE?? OR (WHITE OR PINK) ()NOISE?? OR BABBL??? OR CROSS()TALK???) (3N)S1
S3	672	S (CORRELAT??? OR RELAT? OR CORRESPOND? OR COMPARE?? OR COMPARING OR COMPARISON?? OR MATCH??? OR RELATIONSHIP OR ASSOCIAT???) (3N)S2
S4	248	S (SUPPRESS??? OR DENOIS? OR FILTER??? OR REMOV??? OR SEPARATE??? OR RECOVER? OR EXTRACT??? OR SUBTRACT??? OR MINUS OR DIFFERENCE OR CLEAN??? OR REDUC? OR CANCEL???? OR TRAIN??? OR CORRECT??? OR MUTE?? OR MUTING OR CANCEL? OR UNDESIRED??) (3N)S3
S5	6269	S AU=(YANG, F? OR YANG F? OR HUANG, Y? OR HUANG Y?)
S6	1332	S ADAPTIVE(3N)CANCEL?
S7	2	S S4(3N)S6
S8	2	S S4(20N)UNCORRELAT?
S9	2	S S8 NOT S7
S10	28	S S4(3N)SUPPRESS?
S11	17	S S10 NOT (S7 OR S8 OR AD=20010212:20070703/PR)
S12	11	S S11 AND IC=G10L?
S13	0	S S4 AND S5
S14	1	S S5 AND S6
S15	2	S S3(3N)S6
S16	0	S S15 NOT (S7 OR S8 OR S12)

7/3,K/1 (Item 1 from file: 350) [Links](#)

Derwent WPIX

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0011138038 Drawing available

WPI Acc no: 2002-074733/200210

XRPX Acc No: N2002-055138

Noise canceler system for voice signal has step size decision circuit which outputs step sizes of decision signals from voice detection circuits to adaptive filters

Patent Assignee: UNIV NANYANG TECHNOLOGICAL (UYNA-N)

Inventor: LAN H; ZHANG M

Patent Family (3 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20010048740	A1	20011206	US 2001848943	A	20010503	200210	B
SG 97885	A1	20030820	SG 20002446	A	20000505	200362	E
US 6700976	B2	20040302	US 2001848943	A	20010503	200417	E

[File 348] EUROPEAN PATENTS 1978-2007/ 200727

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[File 349] PCT FULLTEXT 1979-2007/UB=20070628UT=20070621

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Set	Items	Description
S1	140933	S (VOICE?? OR VOCAL???? OR SOUND?? OR ACOUSTIC? OR AUDIBL? OR AUDIO OR SPEECH OR TALK??? OR SPEAKER OR AURAL OR UTTERANCE?? OR SONG OR MUSIC OR LANGUAGE??) (3N) (SAMPL??? OR PACKET? OR DATA OR FRAME?? OR SIGNAL? OR SPECTRUM OR SPECTRA OR COMPONENT?? OR ELEMENT??)
S2	6933	S (NOISE?? OR (WHITE OR PINK) () NOISE?? OR BABBL??? OR CROSS() TALK???) (3N) S1
S3	634	S (CORRELAT??? OR RELAT? OR CORRESPOND? OR COMPARE?? OR COMPARING OR COMPARISON?? OR MATCH??? OR RELATIONSHIP OR ASSOCIAT???) (3N) S2
S4	186	S (SUPPRESS??? OR DENOIS? OR FILTER??? OR REMOV??? OR SEPARATE??? OR RECOVER? OR EXTRACT??? OR SUBTRACT??? OR MINUS OR DIFFERENCE OR CLEAN??? OR REDUC? OR CANCEL???? OR TRAIN??? OR CORRECT??? OR MUTE?? OR MUTING OR CANCEL? OR UNDESIREDD??) (3N) S3
S5	1078	S AU= (YANG, F? OR YANG F? OR HUANG, Y? OR HUANG Y?)
S6	1571	S ADAPTIVE (3N) CANCEL?
S7	49	S S2 (20N) S6
S8	34	S S7 NOT AD=20010212:20070703/PR
S9	11	S S8 AND IC=G10L?
S10	5	S (S3 OR S4) (20N) UNCORRELAT?
S11	5	S S10 NOT S9
S12	0	S S4 AND S5
S13	0	S S3 AND S5
S14	2	S S3 (3N) S6
S15	5	S S10 NOT S14

9/3K/1 (Item 1 from file: 348) Links

EUROPEAN PATENTS

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02031858

Speech signal processing with combined adaptive noise reduction and adaptive echo compensation

Sprachsignalverarbeitung für die gemeinsame adaptive Reduktion von Störgeräuschen und von akustischen Echos

Traitement du signal de parole pour la réduction adaptative de bruit et le contrôle adaptatif de l'écho acoustique simultanés

Patent Assignee:

- Harman Becker Automotive Systems GmbH; (4341692)
Becker-Goering-Strasse 16; 76307 Karlsbad; (DE)
(Applicant designated States: all)

Inventor:

- Kellermann, Walter, Prof.Dr.-Ing
University Erlangen-Nuremberg Cauerstrasse 7; 91058 Erlangen; (DE)
- Herbordt, Wolfgang, c/o Kellermann, W., Prof.Dr.-Ing
University Erlangen-Nuremberg Cauerstrasse 7; 91058 Erlangen; (DE)

Legal Representative:

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**File 624: Homeland Security & Defense and 9 Platt energy journals added Please see HELP NEWS624 for more*

[File 634] **San Jose Mercury** Jun 1985-2007/Jun 29
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Set	Items	Description
S1	1015316	S (VOICE?? OR VOCAL???? OR SOUND?? OR ACOUSTIC? OR AUDIBL? OR AUDIO OR SPEECH OR TALK??? OR SPEAKER OR AURAL OR UTTERANCE?? OR SONG OR MUSIC OR LANGUAGE??) (3N) (SAMPL??? OR PACKET? OR DATA OR FRAME?? OR SIGNAL? OR SPECTRUM OR SPECTRA OR COMPONENT?? OR ELEMENT??)
S2	3299	S (NOISE?? OR (WHITE OR PINK) () NOISE?? OR BABBL??? OR CROSS() TALK???) (3N) S1
S3	78	S (CORRELAT??? OR RELAT? OR CORRESPOND? OR COMPARE?? OR COMPARING OR COMPARISON?? OR MATCH??? OR RELATIONSHIP OR ASSOCIAT???) (3N) S2
S4	8	S (SUPPRESS??? OR DENOIS? OR FILTER??? OR REMOV??? OR SEPARATE??? OR RECOVER? OR EXTRACT??? OR SUBTRACT??? OR MINUS OR DIFFERENCE OR CLEAN??? OR REDUC? OR CANCEL???? OR TRAIN??? OR CORRECT??? OR MUTE?? OR MUTING OR CANCEL? OR UNDESIRE??) (3N) S3
S5	2082	S AU=(YANG, F? OR YANG F? OR HUANG, Y? OR HUANG Y?)
S6	1188	S ADAPTIVE(3N) CANCEL?
S7	7	RD S4 (unique items)
S8	3	S S7 NOT PY>2001
S9	2	S S8 NOT CHOLERA
S10	0	S S3(20N) S6
S11	0	S S3 AND S6
S12	23	S S2(3N) S6
S13	16	S S12 AND (CORRELAT??? OR RELAT? OR CORRESPOND? OR COMPARE?? OR COMPARING OR COMPARISON?? OR MATCH??? OR RELATIONSHIP OR ASSOCIAT???)
S14	16	S S13(20N) (SUPPRESS??? OR DENOIS? OR FILTER??? OR REMOV??? OR SEPARATE??? OR RECOVER? OR EXTRACT??? OR SUBTRACT??? OR MINUS OR DIFFERENCE OR CLEAN??? OR REDUC? OR CANCEL???? OR TRAIN??? OR CORRECT??? OR MUTE?? OR MUTING OR CANCEL? OR UNDESIRE??)
S15	10	S S14 NOT PY>2001
S16	6	RD (unique items)
S17	2	S S3(20N) UNCORRELAT?
S18	0	S (S3 OR S6) AND S5

9/3,K/1 (Item 1 from file: 112) [Links](#)

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01166576 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Ambient noise reduction: integrated solution for telecom applications